Degree Programs, Emphasis Areas, Minors and Certificates
Missouri University of Science and Technology
(Degree programs are in capitals. Emphasis areas are lower case subheads followed by degree abbreviation if restricted to that degree.)

AEROSPACE ENGINEERING (BS, MS, PhD) MI
APPLIED AND ENVIRONMENTAL BIOLOGY (MS)
APPLIED MATHEMATICS (BS, MS) MI
  Actuarial Science (BS)
  Algebra (MS)
  Algebra/Discrete Mathematics (BS)
  Applied Analysis
  Computational Mathematics
  Secondary Education (BS)
  Statistics
ARCHITECTURAL ENGINEERING (BS)
  Construction Eng & Project Mgt
  Construction Materials
  Environmental Systems for Buildings
  Structural Engineering
BIOLOGICAL SCIENCES (BA, BS) MI
  Pre-Medicine (BA)
  Secondary Education (BA)
BUSINESS ADMINISTRATION (MBA)
BUSINESS AND MANAGEMENT SYSTEMS (BS)
  E-commerce
  Enterprise Resource Planning
  Finance
  Human Computer Interaction
  Management Information Systems
  Marketing
CERAMIC ENGINEERING (BS, MS, PhD)
  Biomaterials (MS)
CHEMICAL ENGINEERING (BS, MS, PhD, DE)
  Biochemical Engineering (BS)
CHEMISTRY (BA, BS, MS, MST, PhD) MI
  Biochemistry (BS)
  Polymer & Coatings Science (BS)
  Pre-Medicine Chemistry (BS)
  Secondary Education (BA)
CIVIL ENGINEERING (BS, MS, PhD, DE)
  Construction Engineering
  Environmental Engineering
  Geotechnical Engineering
  Materials Engineering
  Structural Engineering
  Transportation Engineering
  Water Resources Engineering
COMPUTER ENGINEERING (BS, MS, PhD)
  Computational Intelligence (BS)
  Computers and Architecture (BS)
  Embedded Computer Systems (BS)
  Integrated Circuits and Logic Design (BS)
  Networking and Software Engineering (BS)
  Security and Reliability (BS)
COMPUTER SCIENCE (BS, MS, PhD, DE)
  Critical Infrastructure Protection (MS)
  Software Engineering (MS)
EARTH SCIENCES (MST)
ECONOMICS (BA, BS) MI
  Economics/Business (BS)
  Secondary Education (BA)
ELECTRICAL ENGINEERING (BS, MS, PhD, DE)
  Circuits
  Communications-Signal Processing
  Computer Engineering
  Control
  Electromagnetics
  Electronics
  Power
  Solar Energy (MS)
ENGINEERING MANAGEMENT (BS, MS, PhD) MI
  Industrial Engineering (BS)
  Management of Technology (BS)
  Manufacturing Engineering (BS)
  Packaging Engineering (BS)
  Public Works (MS)
ENGRAVING (BA) MI
  Printing (BA)
ENGLISH (BA)
  Secondary Education
ENVIRONMENTAL ENGINEERING (BS, MS)
EXPLOSIVES ENGINEERING (MS)
GEOLOGICAL ENGINEERING (BS, MS, PhD, DE) MI
  Engineering Geology and Geotechnics (BS)
  Environ Protect & Haz Waste Mgmt (BS)
  Groundwater Hydro & Contaminant Transport (BS)
  Petroleum, Energy and Natural Resources (BS)
  Quarry Engineering (BS)
  Hazardous Waste Engineering & Science (MS)
GEOLOGY AND GEOPHYSICS (BS, MS, PhD)
  Exploration Geochemistry (MS, PhD)
  Exploration Geophysics (MS, PhD)
  Geochemistry (BS)
  Geology (BS)
  Geophysics (BS)
  Groundwater & Environmental Geochemistry (BS)
  Petroleum Geology (BS)
GEOTECHNICS (ME)
HISTORY (BA) MI
  Secondary Education
INFORMATION SCIENCE & TECHNOLOGY (BS, MS) MI
  Enterprise Resource Planning
  Human Computer Interaction (BS)
MANUFACTURING ENGINEERING (MS, ME)
MATERIALS SCIENCE AND ENGINEERING (MS, PhD)
MATHEMATICS (MST, PhD) MI
  Analysis (PhD)
  Differential and Functional Equations (PhD)
  Statistics (PhD)
MECHANICAL ENGINEERING (BS, MS, PhD, DE)
  Aerospace Engineering (PhD, DE)
  Control Systems
  Energy Conversion
  Environmental Systems
  Instrumentation
  Manufacturing Processes
  Materials Science
  Mechanial Design and Analysis
  Thermal Science
METALLURGICAL ENGINEERING (BS, MS, PhD)
  Chemical Metallurgy (BS)
  Manufacturing Metallurgy (BS)
  Physical Metallurgy (BS)
MINING ENGINEERING (BS, MS, ME, PhD, DE) MI
  Coal (BS)
  Explosives Engineering (BS)
  Mining & the Environment (BS)
  Mining Health and Safety (BS)
  Quarry Engineering (BS)
  Sustainable Development (BS)
NUCLEAR ENGINEERING (BS, MS, PhD, DE) MI
PETROLEUM ENGINEERING (BS, MS, PhD, DE) MI
PHILOSOPHY (BA, BS) MI
PHYSICS (BS, MS, MST, PhD) MI
  Applied Physics (BS)
  Geophysics (BS)
  Secondary Education (BS)
PSYCHOLOGY (BA, BS) MI
  Cognitive Neuroscience
  Human Resources/Personnel
  Human Services
  Psychology of Leadership
  Secondary Education (BA, BS)
  Usability of Technology
SYSTEMS ENGINEERING (MS, PhD)
TECHNICAL COMMUNICATION (BS, MS) MI
Updated 06/17/11
American Studies  
Art  
Bioinformatics  
Business  
Cognitive Neuroscience  
Communication Studies  
Energy Technology  
Enterprise Resource Planning  
Ethics  
Explosives Engineering  
Film and Literature  
Finance  
French  
Geology  
German  
Global Studies  
Ind/Organizational Psych  
International Economics  
Leadership Communication  
Literature  
Literature and Film  
Marketing  
Materials  
Military Science  
Mineral Process Engineering  
Multiculturalism & Diversity  
Music  
Philosophy of Technology  
Political Science  
Pre-Law  
Pre-MBA  
Pre-medicine  
Psychology of Leadership  
Psychometrics  
Russian  
Science, Technology & Politics  
Sociology  
Spanish  
Studio Art  
Sustainability  
Theatre  
Writing

**UNDERGRADUATE CERTIFICATES**

<table>
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<tr>
<th>Certificate</th>
<th>Discipline</th>
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<tr>
<td>Explosives Engineering</td>
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<td>Design</td>
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**GRADUATE CERTIFICATES**

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<thead>
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<tbody>
<tr>
<td>Actuarial Science</td>
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<td>Business Essentials</td>
<td>Business Administration</td>
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<td>Business Intelligence</td>
<td>Information Science &amp; Technology</td>
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<td>CAD/CAM and Rapid Product Realization</td>
<td>Manufacturing Engineering</td>
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<td>Composite Materials and Structures</td>
<td>Aerospace Engineering/Mechanical Engineering</td>
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<td>Computational Intelligence</td>
<td>Systems Engineering/Computer Engineering/Computer Science</td>
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<td>Contemporary Structural Engineering</td>
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<td>Control Systems</td>
<td>Mechanical Engineering</td>
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<td>Electric Machine and Drives</td>
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<td>Electrical Power Systems Engineering</td>
<td>Electrical Engineering</td>
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<td>Energy Conversion and Transport</td>
<td>Aerospace Engineering/Mechanical Engineering</td>
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<td>Financial Engineering</td>
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<td>Geotechnical Earthquake Engineering</td>
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<td>Lean Six Sigma</td>
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<td>Psychology of Leadership</td>
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<td>Engineering Management</td>
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<td>Chemical and Biological Engineering/Engineering Management</td>
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<td>Software Design and Development</td>
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<tr>
<td>Systems and Software Architecture</td>
<td>Computer Science</td>
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<tr>
<td>Wireless Networks and Mobile Systems</td>
<td>Computer Science</td>
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* Indicates undergraduate & graduate level minor